TX-SR608 7.2-Channel Home Theatre Receiver

BLACK

Microphone for Audyssey

Hitting the Sweet Spot Where Budget and Performance Meet

Sure, we call it an "entry-level" A/V receiver. But when you witness the full potential of the TX-SR608, you'll know the level you're entering is far beyond the ordinary. For a start, you get six of the latest HDMI® 1.4 inputs for simple hook-up of all your high-def sources. HDMI 1.4 also brings compatibility with the new 3D video format, as well as an Audio Return Channel from your display back to the receiver. Complementing HDMI on the input front, you have an analog RGB video input for connecting your PC, and a Universal Port for Onkyo peripherals. All video sources, regardless of resolution, can be upscaled to big and beautiful 1080p via HDMI and Faroudja DCDi Cinema™. Audio processing incorporates quality Burr-Brown DACs, lossless Dolby and DTS codecs, and the expanded surround formats of Audyssey DSX™ and Dolby Pro Logic® IIz. Three-stage inverted Darlington circuitry and jitter-cleaning technology work to ensure extremely precise and faithful amplification. In recognition of the TX-SR608's outstanding A/V prowess, it has been awarded THX® Select2 Plus Certification.

HDMI® 1.4 Support for 3D Video and Audio Return Channel

The six HDMI 1.4 inputs on the TX-SR608 let you simultaneously connect high-def sources such as a Blu-ray player, a gaming console, and a cable/satellite tuner. A single output then sends a pristine signal to your connected high-resolution display. As the latest version of this connector, HDMI 1.4 adds the exciting possibilities of 3D video and an Audio Return Channel. 3D video is the next big thing in home entertainment, with movie, game, and broadcast content on the increase and 3D-compatible TVs on the near horizon. The TX-SR608 also offers the convenience of an Audio Return Channel via HDMI. Audio content received directly by your HDTV's tuner can be sent "upstream" to your A/V receiver, without the need for a separate S/PDIF audio cable.

HDMI Video Upscaling to 1080p with Faroudja DCDi Cinema™

When it comes to video processing, the Faroudja DCDi Cinema (Directional Correlational Deinterlacing) video processor offers several advantages. This processor can accept any video signal, regardless of the source resolution, and upscale it to 1080p to match the native resolution of your high-definition display. What's more, DCDi Cinema effectively removes video artifacts such as jagged edges during the video signal deinterlacing process. You get to enjoy smooth progressive scan video images, even for fast-moving sports and action scenes.

Audyssey DSX™ and Dolby® Pro Logic® IIz Add New Dimensions to Surround Sound

The TX-SR608 handles two new surround-sound technologies from Audyssey and Dolby that offer exciting new ways to set up the speakers in your home theatre system. Audyssey DSX lets you incorporate "front wide" speakers, in place of the usual surround back speakers, to expand the width of the soundstage. Set up at a recommended 60° off center, these channels help to produce a more realistic soundstage and a more immersive listening experience. Alternatively, Audyssey DSX can reconfigure the TX-SR608's surround back channels to deliver "front height" channels. These channels carry ambient, non-directional audio that adds a new vertical dimension to your movies and games. Dolby Pro Logic IIz provides a similar front-height speaker option that likewise works to create a more enveloping home theatre experience.

THX® Select2 Plus™ Certified

THX Select2 Plus certification is specified for rooms where the screen-to-seat viewing distance is 3 to 4 meters and the room volume is around 56 cubic meters. To achieve THX Select2 Plus certification, the TX-SR608 must meet the world's most demanding standards for home theatre audio quality and performance, and must play at reference volume levels with minimal distortion.

TX-SR608 7.2-Channel Home Theatre Receiver

Decoding of High-Definition Surround-Sound Codecs

The TX-SR608 can decode Dolby® TrueHD and DTS-HD Master Audio™—two lossless formats that enable delivery of a bit-for-bit soundtrack identical to the studio master track. These codecs, previously available only on mid-range and high-end receivers, take advantage of the high data capacity of the Blu-ray format.

Convenient Overlaid Graphical On-Screen Display via HDMI

Changing your A/V receiver's settings is now more seamless than ever, thanks to the TX-SR608's new overlaid graphical On-Screen Display (OSD) feature. Simply press the Home button on the included remote controller, and semi-transparent graphical set-up menus appear overlaid on the video image you're watching. This means you can adjust the settings immediately, without having to switch back and forth from a blank screen background.

192 kHz/24-Bit Burr-Brown DACs Improve Jitter Performance to Deliver Clearer Sound

High-quality Burr-Brown DACs (PCM1690) work to optimize analog audio performance on the TX-SR608. These DACs perform advanced 24-bit signal processing and support sampling rates of up to 192 kHz, while displaying high resistance to clock jitter and offering a 113 dB dynamic range.

A Suite of Audyssey Technologies for the Ideal Listening Environment

(1) Audyssey 2EQ™ tailors multi-channel audio for your home theatre speaker set-up by measuring three room positions and applying a resolution filter to the satellite speakers to correct for room acoustics.

(2) Audyssey Dynamic Volume™ automatically compensates for volume fluctuations in different audio content—for example, during commercial breaks—while optimizing the dynamic range.

(3)Audyssey Dynamic EQ™ maintains a consistent bass response, tonal balance, and surround-sound effect at different volume levels, so you can enjoy the natural dynamics of your content regardless of the volume.

Playback of Different Audio Sources in Two Different Zones

With Powered Zone 2, you can enjoy surround-sound entertainment in the main room, while playing back a different stereo source in a second zone equipped with a pair of speakers. Alternatively, you can use the Zone 2 line-out to send an unamplified audio signal to an amplifier (and speakers) in the second room.

ADVANCED FEATURES

- THX® Select2 Plus™ Certified
- HDMI® (Version 1.4 to Support 3D and Audio Return Channel) with Deep Color™, x.v.Color™, LipSync, Dolby® TrueHD, DTS-HD Master Audio™, DVD-Audio, Super Audio CD, Multichannel PCM, and CEC
- Dolby® TrueHD, DTS-HD Master Audio™, Dolby® Digital Plus, DTS-HD High-Resolution Audio™ Decoding
- HDMI Video Upscaling to 1080p with Faroudja DCDi Cinema™
- Audyssey DSX™ and Dolby® Pro Logic® IIz for New Surround Channels
- Burr-Brown 192 kHz/24-Bit DACs (PCM1690) for All Channels
- Three-Stage Inverted Darlington Circuitry
- Jitter-Cleaning Circuit Technology
- Audyssey 2EQ™ for Room Acoustic Correction
- Audyssey Dynamic Volume™
- Audyssey Dynamic EQ™ for Loudness Correction
- Powered Zone 2 and Zone 2 Line-Out for Playback of Separate Source in Another Room
- Overlaid Graphical On-Screen Display (OSD) via HDMI
- 2 Parallel Subwoofer Pre Outs
- Analog RGB Video Input (D-sub, 15 pin) for PC

AMPLIFIER FEATURES

- 100 W/Ch at 8 Ω, 20 Hz–20 kHz, 0.08%, 2 Channels Driven, FTC;
  160 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, IEC;
  175 W/Ch at 6 Ω, 1 kHz, 1 Channel Driven, JEITA
- WRAT (Wide Range Amplifier Technology)
- High-Current Low-Impedance Drive
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- Optimum Gain Volume Circuitry
- Bi-Amping Capability

PROCESSING FEATURES

- Advanced 32-Bit Processing DSP Chip
- 4 DSP Modes for Gaming: Rock, Sports, Action, and RPG (Role Playing Game)
- Music Optimizer™ for Compressed Digital Music Files
- Pure Audio Mode
- Direct Mode
- Double Bass Function
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- Theater-Dimensional Virtual Surround Function

CONNECTION FEATURES

- Universal Port for Single-Cable Connection of Optional Onkyo Dock for iPhone™/iPod®
- Audio and 1080p Video Processing via HDMI (1 Front/5 Rear Inputs and 1 Output)
- HDTV-Capable (720p/1080i) Component Video Switching (2 Inputs and 1 Output)
- Front-Panel Audio Input for Portable Devices
- Front-Panel Auxiliary A/V Input
- 4 Digital Inputs (2 Optical and 2 Coaxial)
- 4 A/V Inputs and 1 Output
- Video Output (Monitor)
- 2 Audio Inputs
- Color-Coded, Banana Plug-Compatible Speaker Posts
- Headphone Jack

OTHER FEATURES

- Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function (Up to 200 ms in 10 ms Steps)
- Tone Control (Bass/Treble) for Front L/R Channels
- Display Dimmer (Normal/Dim/Dimmer)
- Sleep Timer (via Remote)
- Battery-Free Memory Backup
- 40 FM/AM Random Presets
- RIHD (Remote Interactive over HDMI) for System Control
- Compatible with RI (Remote Interactive) Dock for iPod
- Preprogrammed RI Remote Control

SPECIFICATIONS

AMPLIFIER SECTION

Power Output	
Front L/R	100 W/Ch (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC); 160 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC); 175 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Center	100 W (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC); 160 W (6 Ω, 1 kHz, 1 channel driven, IEC); 175 W (6 Ω, 1 kHz, 1 channel driven, JEITA)
Surround L/R	100 W/Ch (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC); 160 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC); 175 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Surround Back L/R, Front High L/R, Front Wide L/R, or Zone 2 L/R	100 W/Ch (8 Ω, 20 Hz–20 kHz, 0.08%, 2 channels driven, FTC); 160 W/Ch (6 Ω, 1 kHz, 1 channel driven, IEC); 175 W/Ch (6 Ω, 1 kHz, 1 channel driven, JEITA)
Dynamic Power	240 W (3 Ω, Front) 210 W (4 Ω, Front) 120 W (8 Ω, Front)
THD (Total Harmonic Distortion)	0.08% (1 kHz, 1 W)
Damping Factor	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	200 mV/47 kΩ (Line)
Output Level and Impedance	200 mV/2.2 kΩ (Rec out)
Frequency Response	5 Hz–100 kHz/+1 dB, -3 dB (DSP bypass)
Tone Control	±10 dB, 50 Hz (Bass) ±10 dB, 20 kHz (Treble)
Signal-to-Noise Ratio	106 dB (Line, IHF-A)
Speaker Impedance	4 Ω–16 Ω or 6 Ω–16 Ω

VIDEO SECTION

Input Sensitivity/Output Level and Impedance	
Video	1.0 Vp–p/75 Ω (Component) 0.7 Vp–p/75 Ω (Component PB/CB, PR/CR) 1.0 Vp–p/75 Ω (Composite)
Component Video Frequency Response	5 Hz–100 MHz/0 dB, -3 dB

TUNER SECTION

Tuning Frequency Range	
FM	87.5 MHz–108 MHz
AM	522 kHz–1,611 kHz 530 kHz–1,710 kHz
FM/AM Preset Memory	40 stations

GENERAL

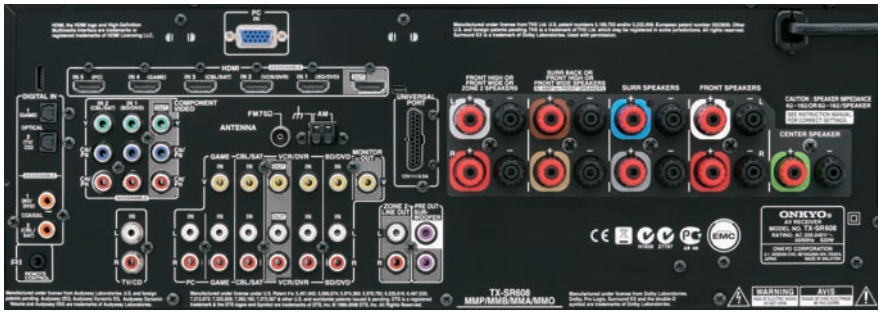
Power Supply	AC 220–240 V~, 50/60 Hz
Power Consumption	620 W
Dimensions (W x H x D)	435 x 176 x 329 mm
Weight	11.5 kg

■ CARTON

Dimensions (W x H x D)	570 x 297 x 423 mm
Weight	14.0 kg

■ Supplied Accessories

• Indoor FM loop antenna • AM loop antenna • Speaker cable labels
• Speaker set-up microphone • Instruction manual • Quick start guide
• Remote controller • AA (R6) batteries x 2



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IMAGINATIVE SIGHT & SOUND

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